AIRMAN

			Hull F.E. Rpt. Nos.
Empire	Flora		53089
"	Stella	W/N "SERVICEMAN"	53154
"	Sheila		53171
"	Clara	N.N. AIRMAN	53172
"	Martha		53200
"	Vera		53250
"	Greta		533[illegible]2
"	Nina		53433

Cochrane + Sons yard Nos. 1297/8/9/1300/1/2/3/4

* AIRMAN

PROFILE + DECK.

RECORDS DEPT.
LONDON

3

RIFLEMAN

014654-014665-0187

SERVICEMAN

PROFILE & DECK PLAN

DIMNS: 115'-0" B.P. × 27'-6" MLD. × 13'-6" MLD.

TO CLASS ✠ 100 A.I. FOR TOWING SERVICES

SCALE: $\frac{1}{4}$" = 1 FT.

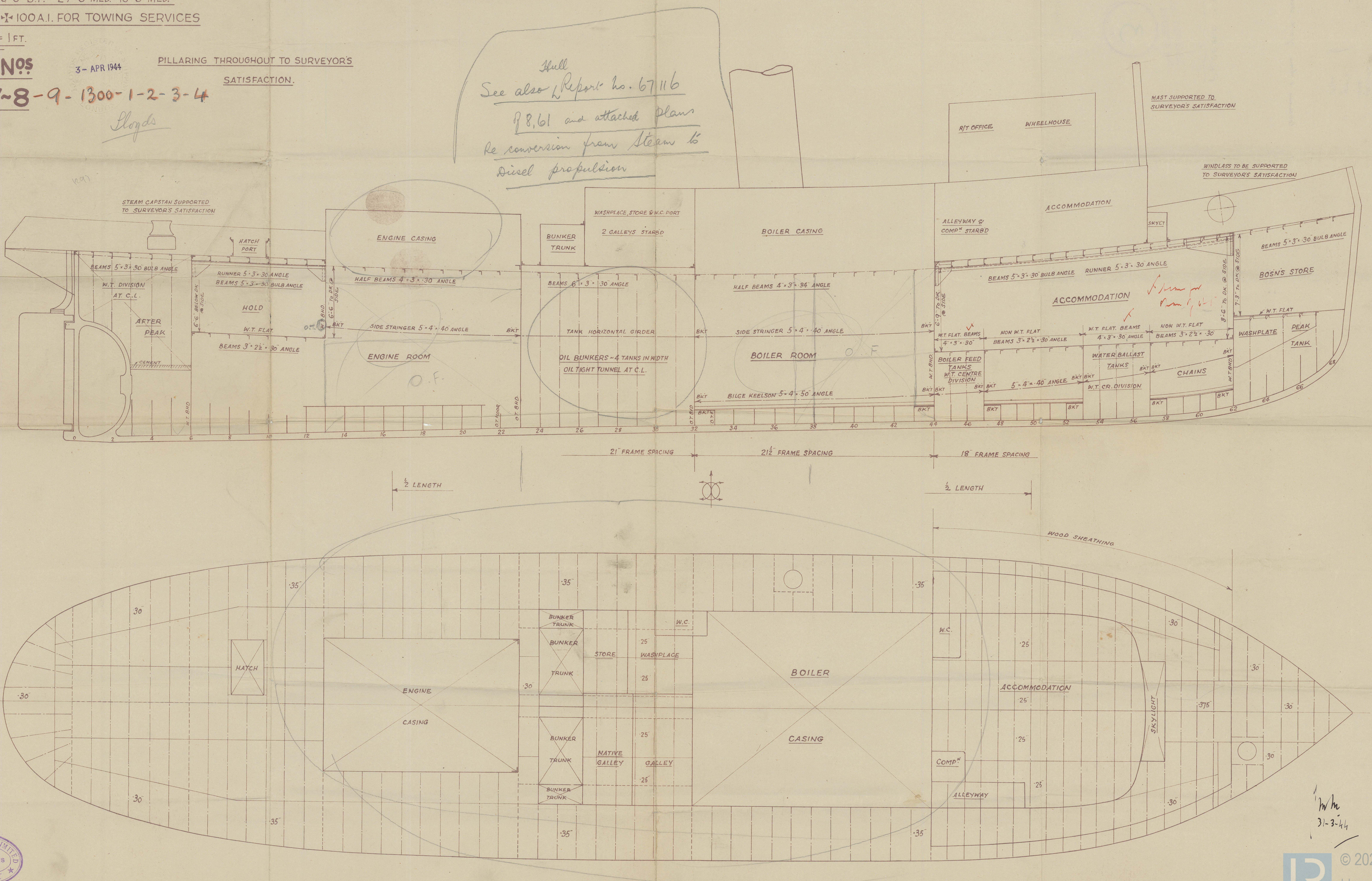
SHIP Nos

1297~8-9-1300-1-2-3-4

3 - APR 1944

Lloyds

PILLARING THROUGHOUT TO SURVEYOR'S SATISFACTION.



STEAM CAPSTAN SUPPORTED TO SURVEYOR'S SATISFACTION
HATCH PORT
BEAMS 5" × 3" × ·30" BULB ANGLE
W.T. DIVISION AT C.L.
AFTER PEAK
CEMENT
W.T. BHD
RUNNER 5" × 3" × ·30" ANGLE
BEAMS 5" × 3" × ·30" BULB ANGLE
6'-6" BELOW DK @ SIDE
HOLD
W.T. FLAT
BEAMS 3" × 2½" × ·30" ANGLE
O.T.
W.T. BHD.
6'-6" TO DK @ SIDE
BKT
ENGINE CASING
HALF BEAMS 4" × 3" × ·30" ANGLE
SIDE STRINGER 5" × 4" × ·40" ANGLE
ENGINE ROOM
O.F.
O.T. FLOOR
O.T. BHD.
BUNKER TRUNK
WASHPLACE, STORE & W.C. PORT
2 GALLEYS STARBD
BEAMS 6" × 3" × ·30" ANGLE
TANK HORIZONTAL GIRDER
OIL BUNKERS ~ 4 TANKS IN WIDTH
OIL TIGHT TUNNEL AT C.L.
BOILER CASING
HALF BEAMS 4" × 3" × ·34" ANGLE
SIDE STRINGER 5" × 4" × ·40" ANGLE
BOILER ROOM
O.F.
BILGE KEELSON 5" × 4" × ·50" ANGLE
O.T. BHD
O.T.F.
R/T OFFICE
WHEELHOUSE
MAST SUPPORTED TO SURVEYOR'S SATISFACTION
ALLEYWAY & COMPN STARBD
ACCOMMODATION
SKYL'T
WINDLASS TO BE SUPPORTED TO SURVEYOR'S SATISFACTION
BEAMS 5" × 3" × ·30" BULB ANGLE
RUNNER 5" × 3" × ·30" ANGLE
ACCOMMODATION
6'-9" TO DK. @ SIDE
8'-6" TO DK. @ SIDE
7'-3" TO DK @ SIDE
BOSN'S STORE
W.T. FLAT
W.T. FLAT. BEAMS 4" × 3" × ·30"
NON W.T. FLAT BEAMS 3" × 2½" × ·30" ANGLE
W.T. FLAT. BEAMS 4" × 3" × ·30" ANGLE
NON W.T. FLAT BEAMS 3" × 2½" × ·30"
WASHPLATE
PEAK TANK
BOILER FEED TANKS W.T. CENTRE DIVISION
W.T. BHD.
5" × 4" × ·40" ANGLE
WATER BALLAST TANKS
W.T. CR. DIVISION
CHAINS
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
62
64
66
68
21" FRAME SPACING
21½" FRAME SPACING
18" FRAME SPACING
½ LENGTH
½ LENGTH
WOOD SHEATHING
·35
·30
·25
·375
HATCH
ENGINE CASING
BUNKER TRUNK
BUNKER TRUNK
BUNKER TRUNK
STORE
WASHPLACE
W.C.
NATIVE GALLEY
GALLEY
BOILER CASING
W.C.
ACCOMMODATION
SKYLIGHT
COMPN
ALLEYWAY

Hull
See also Report No. 67116
of 8.61 and attached Plans
Re conversion from Steam to
Diesel propulsion

WM
31-3-44

COCHRANE & SONS LIMITED
2562
SHIPBUILDERS
25 MAR 1944
SELBY

014654 – 014665 – 0187

	Hull F.E. Rpt. Nos
Empire Flora	53089
" Stella	53154
" Sheila	53171
" Clara M.V. AIRMAN	53172
" Martha	53200
" Vera	53250
" Greta	53312
" Nina	53433

014654-014665-0190

Cochrane & Sons Yard
Nos. 1294-1304.

STERNFRAME &
RUDDER.

RECORDS DEPT.
LONDON

4

0190

Sternframe & rudder

0190

1297

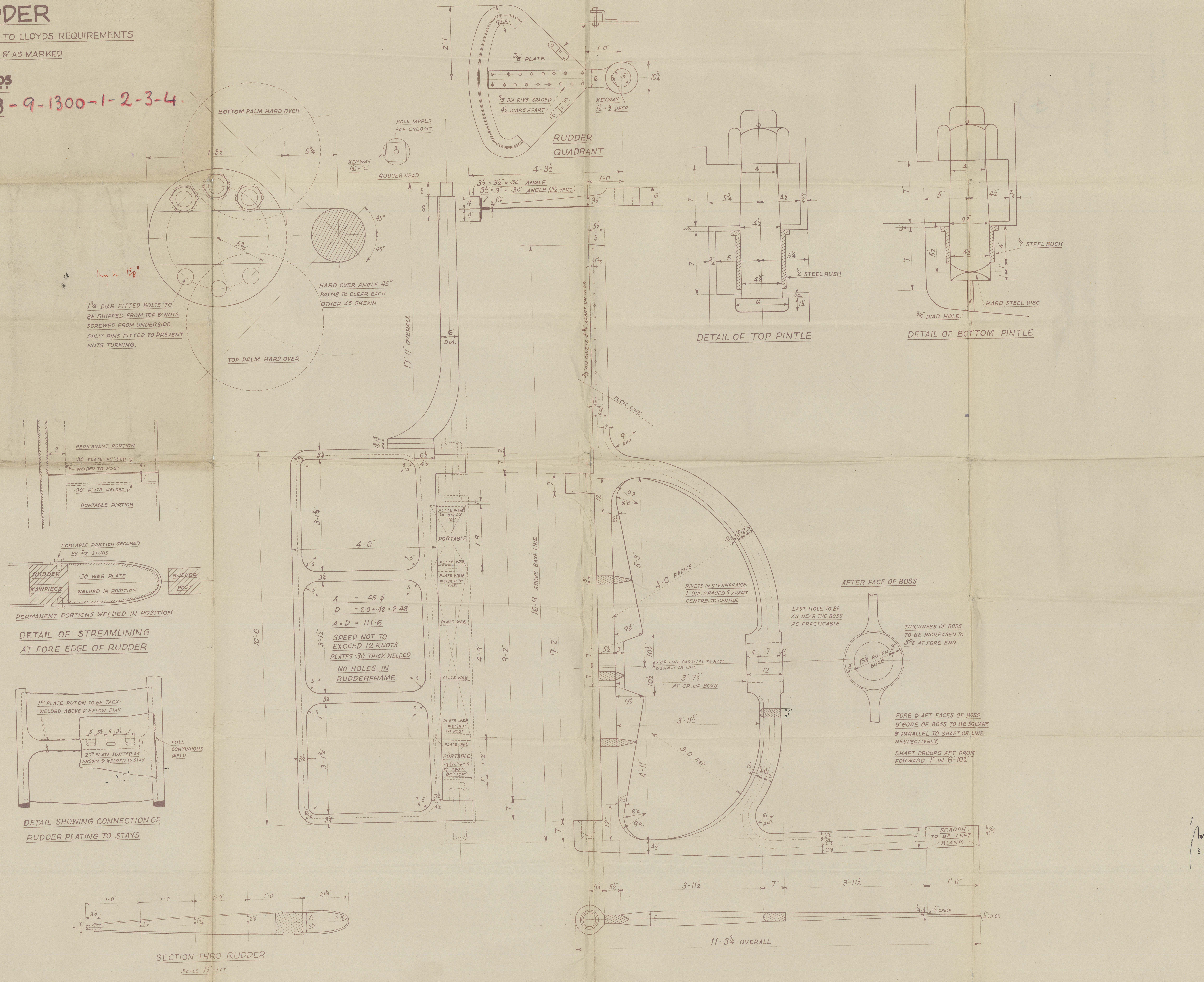
STERNFRAME
& RUDDER

3- APR 1944

FORGED STEEL TO LLOYDS REQUIREMENTS

SCALE: 1" = 1 FT. & AS MARKED

SHIP Nos
1297~8 - 9 - 1300 - 1 - 2 - 3 - 4.



BOTTOM PALM HARD OVER
TOP PALM HARD OVER
1'-3½"
5¾"
5¾
45°
45°
HARD OVER ANGLE 45° PALMS TO CLEAR EACH OTHER AS SHEWN
1¾ DIAR FITTED BOLTS TO BE SHIPPED FROM TOP & NUTS SCREWED FROM UNDERSIDE. SPLIT PINS FITTED TO PREVENT NUTS TURNING.
HOLE TAPPED FOR EYEBOLT
KEYWAY 1½" × ½"
RUDDER HEAD
9½" R.
2'-1"
⅜" PLATE
1'-0"
6"
10¾
⅞" DIA RIVS SPACED 4½ DIARS APART
KEYWAY 1½" × ½" DEEP
RUDDER QUADRANT
4'-3½"
3½" × 3½" × ·30" ANGLE
3½" × 3" × ·30" ANGLE (3½" VERT.)
1¼"
3½"
17'-11" OVERALL
6" DIA.
DETAIL OF TOP PINTLE
½" STEEL BUSH
DETAIL OF BOTTOM PINTLE
HARD STEEL DISC
¾" DIAR. HOLE
PERMANENT PORTION
·30" PLATE WELDED
WELDED TO POST
·30" PLATE WELDED
PORTABLE PORTION
PORTABLE PORTION SECURED BY ⅝" STUDS
RUDDER MAINPIECE
·30" WEB PLATE WELDED IN POSITION
RUDDER POST
PERMANENT PORTIONS WELDED IN POSITION
DETAIL OF STREAMLINING AT FORE EDGE OF RUDDER
1ST PLATE PUT ON TO BE TACK-WELDED ABOVE & BELOW STAY
2ND PLATE SLOTTED AS SHOWN & WELDED TO STAY
FULL CONTINUOUS WELD
DETAIL SHOWING CONNECTION OF RUDDER PLATING TO STAYS
4'-0"
10'-6
A = 45 ◻
D = 2·0 + ·48 = 2·48'
A × D = 111·6
SPEED NOT TO EXCEED 12 KNOTS
PLATES ·30" THICK WELDED
NO HOLES IN RUDDERFRAME
PLATE WEB ¼ BELOW TOP
PORTABLE
PLATE WEB
PLATE WEB WELDED TO POST
PLATE WEB
PLATE WEB
PLATE WEB WELDED TO POST
PLATE WEB
PORTABLE
PLATE WEB ¼" ABOVE BOTTOM
1'-9"
4'-9"
1'-2"
9'-2"
16'-9" ABOVE BASE LINE
⅞ DIA RIVS TO 3¼ APART CR TO CR
TUCK LINE
4'-0" RADIUS
RIVETS IN STERNFRAME 1" DIA. SPACED 5" APART CENTRE TO CENTRE
CR. LINE PARALLEL TO BASE
SHAFT CR. LINE
3'-7½" AT CR. OF BOSS
3'-11½"
3'-0" RAD.
LAST HOLE TO BE AS NEAR THE BOSS AS PRACTICABLE
AFTER FACE OF BOSS
13⅛" ROUGH BORE
THICKNESS OF BOSS TO BE INCREASED TO 3⅝" AT FORE END
FORE & AFT FACES OF BOSS & BORE OF BOSS TO BE SQUARE & PARALLEL TO SHAFT CR. LINE RESPECTIVELY.
SHAFT DROOPS AFT FROM FORWARD 1" IN 6'-10½"
SCARPH TO BE LEFT BLANK
6" RAD.
¼" CHECK
¼" THICK
11'-3¾" OVERALL
SECTION THRO RUDDER
SCALE: 1½" = 1 FT.

31-3-44

COCHRANE & SONS LIMITED
2566
SHIPBUILDERS
25 MAR 1944
SELBY

014654-014665-0190